An Apparatus and A Method For Sampling Digital Image

Abstract of the Disclosure

A method and an apparatus for down-scaling an input image. The input image is composed of a series of image frames which are continuous in a time sequence. These image frames is grouped into at least a first set and a second set of image frames which are continuous and interchanging with each other. Sampling models employed in the present invention are typically following the method of skip-through. However, pixels contained in different sets of image frames are sampled by using different sampling models such that the lost of critical graphic information (e.g. pixel data) can be minimized after down-scaling. These sampled pixels of each image frame of each set are then output continuously by following the same order in the same time sequence. As a result, the complexity in both operation and architecture of the apparatus and the method of the present invention are reduced, and the problems of image blurring and losing partial image data which might otherwise happen in the prior arts are also solved.